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ARIZONA WATER COMPANY



Docket No. W-1445A-02-0619

2002 RATE HEARING EXHIBIT NO. _____

For Test Year Ending 12/31/01

**PREPARED
REBUTTAL TESTIMONY & EXHIBITS
OF
Ralph J. Kennedy**

EXHIBIT

A-16

Admitted

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10 **BEFORE THE ARIZONA CORPORATION COMMISSION**

11 IN THE MATTER OF THE
12 APPLICATION OF ARIZONA WATER
13 COMPANY, AN ARIZONA
14 CORPORATION, FOR ADJUSTMENTS
15 TO ITS RATES AND CHARGES FOR
16 UTILITY SERVICE FURNISHED BY ITS
17 EASTERN GROUP AND FOR CERTAIN
18 RELATED APPROVALS.

Docket No. W-01445A-02-0619

19 **REBUTTAL TESTIMONY OF RALPH J. KENNEDY**

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1 **I. INTRODUCTION AND PURPOSE EXTENT OF TESTIMONY**

2 **Q. WHAT IS YOUR NAME, EMPLOYER AND OCCUPATION?**

3 A. My name is Ralph J. Kennedy. I am employed by Arizona Water Company (the
4 "Company") as Vice President and Treasurer.

5 **Q. ARE YOU THE SAME RALPH J. KENNEDY THAT PREVIOUSLY**
6 **PROVIDED DIRECT TESTIMONY ON THIS MATTER?**

7 A. Yes, I am.

8 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY IN THIS**
9 **PROCEEDING?**

10 A. The purpose of my rebuttal testimony is to respond to certain direct testimony
11 submitted by the Arizona Corporation Commission's Utilities Division Staff ("Staff")
12 and the Residential Utility Consumer Office ("RUCO") in this rate proceeding.
13 Specifically, I will address the proper ratemaking treatment for the funds received by
14 Arizona Water under the PCG settlement, address Staff's proposed rate design for the
15 Company's Eastern Group, discuss consolidation of the Superior and Apache Junction
16 systems, provide further consideration of the risks impacting the Company's cost of
17 capital, discuss a revised depreciation methodology, address issues related to the
18 Company's NP-260 Non-potable Water Tariff, and address recovery of the capital and
19 operations and maintenance costs of required arsenic treatment facilities.

20 **Q. HAVE YOU PREPARED ANY EXHIBITS AS PART OF YOUR**
21 **PRESENTATION IN THIS PROCEEDING?**

22 A. Yes, I have prepared the following exhibits that are attached to this testimony:

23 Exhibit RJK-R1 Staff's Response to AWC's Data Request No. 4.8

24 Exhibit RJK-R2 Capacity Multiples by Meter Size

25 Exhibit RJK-R3 Percent Of Use In Tier 3
26

1 **II. THE PCG SETTLEMENT AND RELEASE AGREEMENT**

2 **Q. WHAT BENEFITS DID THE COMPANY AND ITS CUSTOMERS REALIZE**
3 **AS A RESULT OF THE PCG AGREEMENT?**

4 **A.** As described in Mr. Garfield's rebuttal testimony, the PCG Agreement conferred
5 several benefits, the most significant of which was desperately needed additional
6 water supply capacity to serve Miami system customers. It is extremely unlikely that
7 the Company could have achieved this additional capacity on its own in the Miami
8 system. For one thing, the Company was unable to acquire wells or well sites from
9 PCG members to utilize the more productive groundwater resources they controlled.
10 In addition, the cost of drilling wells to achieve the additional level of water supply
11 capacity provided under the PCG Agreement in areas available to Arizona Water
12 would have more than doubled the Miami system rate base.

13 The last well drilled by the Company in the Miami system was in 1998, before
14 the PCG Agreement, at an actual cost of \$317,000 dollars. When completed the
15 capacity of this well was 145 gallons per minute ("gpm"). Within three years, the
16 capacity had decreased to 122 gpm. The Company estimates that at least 10 wells at a
17 cost of \$500,000 each would have been required to achieve the same level of
18 available water supply capacity that the PCG Agreement provides. As Mr. Garfield
19 explained in his rebuttal testimony, any wells that the Company could have drilled in
20 its CC&N would have generally experienced diminishing capacity over time.

21 **Q. WHAT OTHER BENEFITS WERE REALIZED FROM THE PCG**
22 **AGREEMENT?**

23 **A.** Once agreement was reached on the annual replacement water quantity and guarantee
24 time period, the Company agreed to accept a \$1.4 million monetary payment to
25 release all of its claims against the PCG.

26 **Q. DO YOU BELIEVE STAFF HAS ADEQUATELY ANALYZED THE**

1 **BENEFITS OF THE PCG AGREEMENT?**

2 A. No, Staff has essentially ignored the primary benefit of the PCG Agreement—a 600
3 gpm stable water supply for over 30 years. In fact, reading Staff's testimony, one
4 would conclude that the only benefit of the PCG Agreement was a \$1.4 million
5 "windfall" to the Company. (See, e.g., Direct Testimony of Ronald E. Ludders
6 ("Ludders Direct") at 52.)

7 In its zeal to cut the Company's revenue requirement, Staff offers an
8 inappropriate and one-sided adjustment to the Miami system's rate base and operating
9 income--an immediate \$1.4 million reduction in Miami's unadjusted test year rate
10 base of \$3,918,616 (a 36% instantaneous reduction) combined with an annual
11 \$50,000 amortization adjustment that will reduce the Miami system's required
12 operating income by \$50,000 each year for the next 28 years. Thus, instead of
13 recognizing the benefits conferred on rate payers by the Company's actions, Staff
14 proposes an enormous one-time "fine" for securing a 600 gpm water supply at no
15 capital cost, followed by an additional annual \$50,000 penalty for nearly three
16 decades. As Mr. Garfield testified, Staff's recommendations are punitive and provide
17 no incentive for water providers to battle polluters for the benefit of their customers.
18 Apparently, if Staff's logic is followed to its conclusion, the Company would have
19 been better off replacing its water supplies at great cost (assuming it even could) and
20 letting the guilty polluters make a clean get away. This is hardly sound public policy.

21 **Q. WHAT OTHER BENEFITS HAS STAFF IGNORED IN DEVELOPING ITS**
22 **RECOMMENDATION?**

23 A. Although we can compute the avoided cost savings to the Miami customers over the
24 life of the PCG Agreement, it is virtually impossible to develop a quantitative value
25 for the access right to guaranteed water supplies of 600 gpm from property owned or
26

controlled by the PCG. Without this, the physical facilities could become unproductive and inadequate to meet the needs of the Miami System long before the end of the PCG Agreement. Nevertheless, Staff has also ignored both the avoided cost of acquiring and operating the physical facilities and the guarantee from the PCG that the physical facilities turned over to the Company will produce 600 gpm in 2028.

Q. CAN THE VALUE OF THE BENEFITS THE COMPANY OBTAINED FOR ITS MIAMI CUSTOMERS UNDER THE PCG AGREEMENT BE MEASURED?

A: Yes. The following table compares the minimum measurable avoided cost financial benefit to the customers with the \$1.4 million settlement to the Company.

| Partial Customer Benefits Over Life Of PCG Agreement | | | | | | | Company Benefit | |
|--|--------------|-------------|--------------|----------------|-------------|--|-----------------|----------------|
| Discount | Depreciation | Required | Gross | Minimum | Power | | | |
| Rate | Expense | Return | Return | Benefit | Savings | | Amount | Percentage |
| (a) | (b) | (c) | (d) | (e) (b)+(d) | (f) | | (g) | (h) g/(e+g) |
| None | \$5,000,000 | \$7,600,000 | \$12,359,587 | \$17,359,587 | \$7,449,000 | | \$1,400,000 | 7.5% |
| 6.0% | \$1,858,063 | \$3,760,531 | \$6,115,606 | \$7,973,669 | \$2,297,377 | | \$1,247,406 | 13.5% |
| 8.0% | \$1,432,261 | \$3,105,776 | \$5,050,804 | \$6,483,065 | \$1,663,445 | | \$1,202,645 | 15.6% |
| 8.6% | \$1,332,135 | \$2,942,565 | \$4,785,379 | \$6,117,514 | \$1,518,343 | | \$1,189,743 | 16.3% |
| 9.5% | \$1,200,239 | \$2,721,039 | \$4,425,120 | \$5,625,359 | \$1,329,958 | | \$1,170,823 | 17.2% |
| 10.0% | \$1,135,174 | \$2,608,741 | \$4,242,496 | \$5,377,669 | \$1,238,296 | | \$1,160,531 | 17.8% |

As discussed above, without access to PCG controlled land and drilling rights, the Company would have had to drill at least 10 wells at an average cost of \$500,000 each to increase the Miami water supply by 600 gpm. The Miami customers' rates would then have included depreciation expense, a return on the capital cost and

1 associated income taxes if the Company invested capital in such wells. Customer
2 rates would also have included recovery of power expense for an undetermined period
3 of time and increased property taxes resulting from the required increase in operating
4 revenues. Obviously, the sum total of this would have been a much larger rate
5 increase for the Miami system than that being sought by Arizona Water in this
6 proceeding.

7 I would also note that the calculated Minimum Customer Benefit, column (e),
8 is exclusive of avoided costs for power savings and property taxes. Also excluded are
9 the operating and capital costs for necessary replacement wells that Mr. Garfield
10 stated are required for wells drilled in the Gila conglomerate. The \$17,359,857
11 Minimum Customer Benefit shown in the above table, which will accumulate over the
12 life of the PCG Agreement, includes only depreciation expense and the gross return
13 requirement, including income taxes on the return. This compares to the \$1.4 million
14 payment to the Company, which is only 7.5%, column (h), of the sum of the
15 Minimum Customer Benefit shown in column (e) and the Company benefit shown in
16 column (g) above. Additional savings for other avoided costs such as property taxes
17 and power savings would also accrue to the customers. Based on Mr. Hammon's
18 recommended power cost adjustment, if no wells were turned over to the Company
19 until the final 2028 deadline, the power savings as shown in column (f) of the above
20 table would add to the minimum benefit shown in column (e) and further reduce the
21 Company's share of the total benefit it obtained.

22 Since a dollar today is considered to be worth more than a dollar received in
23 the future, it is also appropriate to adjust the cumulative comparable benefits through
24 a present value analysis. The Company's share of the total minimum benefit, as
25 shown in column (h) of the above table varies from only 7.5% to 17.8% when the
26

1 present value of the benefits are compared at discount rates from 6% to 10%.

2 The Miami customers have not borne the cost of the replacement water and
3 will continue to enjoy that benefit until such time as the PCG turns over wells with a
4 600 gpm capacity to the Company and revised rates including the power cost and well
5 maintenance expense for the new wells are authorized and become effective
6 following a future general rate case. Because the Company has been receiving the
7 replacement water at no cost under the PCG Agreement, the Company did not
8 propose a pro forma increase in its test year Miami purchased power expense and
9 objects to Mr. Hammon's proposal to include a further 2003 increment of reduced
10 power expense. Direct Testimony of Lyndon Hammon ("Hammon Direct") at 17-18.

11 The adjustment assumes that the PCG will not turn over any wells to the Company in
12 2003. October 2003 is when the final 100 gpm of replacement water capacity is due,
13 and the PCG has every incentive to transfer wells with 600 gpm capacity to the
14 Company to avoid the pumping costs they are incurring. Although Staff witness Mr.
15 Hammon estimated that the minimum value of the power to pump 600 gpm is
16 \$234,000 per year (Hammon Direct at page 18, ls. 4-22), reducing the Company's
17 power expense for the 2003 increment of "free water" based on the unknown action
18 of another party does not satisfy the known and measurable criteria applied to pro
19 forma adjustments to test year operating expenses and as such, Staff's proposed
20 adjustment of \$39,000 to purchased power expense should be rejected.

21 **Q. DID THE COMPANY PROPERLY ACCOUNT FOR THE \$1.4 MILLION**
22 **PAYMENT BY THE PCG AGREEMENT?**

23 **A.** Yes. The settlement payment was accounted for by the Company as Miscellaneous
24 Income and appeared in both its 1998 and 1999 independently audited financial
25 statements as well as its 1998 and 1999 Annual Reports to the Commission. There
26

1 was no special narrative description of the compensation nor was one permitted. In
2 fact, a voluntary narrative description would have violated the confidentiality
3 provisions of the PCG Agreement.

4 **Q. ANY FURTHER COMMENT ON THE PCG AGREEMENT ISSUES, MR.**
5 **KENNEDY?**

6 **A.** Yes. Rather than analyzing the full benefits of the PCG Agreement, Staff has
7 concocted a novel and unsupportable reduction of the Company's revenue
8 requirement. Staff states without qualification: "Since the \$1,400,000 was not the
9 investment of the shareholders a reduction to the rate base is appropriate." Ludders'
10 Direct Testimony at 52, ls. 9-10. Staff appears to be arguing that all dollar inflows to
11 the Company that are not the investment of the shareholders should result in a
12 reduction to rate base, for example bond proceeds, short-term borrowings, gain on
13 sale of assets, non-operating income from any source. Staff also appears to argue that
14 it doesn't matter how the dollar inflows are used or whether or not they are actually
15 invested in new plant facilities. It is difficult to grasp even the intended meaning of
16 such broad, unqualified and unexplained statements.

17 Staff also recommends that the \$1.4 million be treated as a Contributions in
18 Aid of Construction ("CIAC"). However, the settlement from the PCG has none of
19 the characteristics of CIAC. The Commission's Rules define contributions in aid of
20 construction as: "Funds provided to the utility by the applicant under the terms of a
21 main extension agreement and/or service connection tariff the value of which are not
22 refundable." A.A.C. R14-2-401. Thus, the essential elements of a Contribution are:
23 1) funds are provided by an applicant 2) for the specific purpose of installing the
24 necessary facilities to serve the applicant. The PCG is not an applicant for service,
25 there is no related main extension agreement or service connection agreement and the
26

1 PCG Agreement does not obligate the Company to install facilities to provide water
2 service to the PCG or anyone else.

3 Even if Staff had developed a cogent argument for its proposed accounting and
4 rate treatment, which it certainly has not, there are insurmountable public policy and
5 equity hurdles confronting Staff's recommendation. As Mr. Garfield stated and as
6 quantified in the table of Customer and Company Benefit set forth above, the
7 Company's customers received, and will continue to receive, substantial economic
8 benefits far exceeding the present value of the settlement received by the Company.
9 There is simply no logical or equitable basis for Staff's recommended treatment, and
10 it should be rejected.

11 **III. RATE DESIGN**

12 **Q HAVE YOU REVIEWED THE STAFF'S RATE DESIGN AND EVALUATED**
13 **ITS THEORETICAL MERITS?**

14 **A.** Yes, I have reviewed both the stated theoretical basis and the underlying support for
15 Staff's experimental rate design as set forth in Mr. Thornton's direct testimony. I
16 have also reviewed and evaluated the Staff's actual recommended rates as set forth in
17 Mr. Ludders' testimony and workpapers for each Eastern Group system. My overall
18 conclusion regarding Staff's rate design recommendations is that it is inadequately
19 developed and lacks both depth and breadth of quantitative support. Instead, Staff
20 relies on suppositions, assumptions, unsupported assertions and fails to acknowledge
21 issues discussed in the very publications it relies on in making its recommendations.

22 Moreover, the design deviates from the Company's existing and proposed cost
23 of service based rates without any supporting cost of service study. Mr. Thornton's
24 cryptic half page calculations of Apache Junction's Average Incremental Cost (AIC)
25 is not a cost of service study. Staff's deviation from cost of service rates is more than
26

1 a theoretical concern; it creates inequitable subsidies between meter sizes in each
2 Eastern Group system. It is folly to apply experimental and untested rate design
3 concepts to 30,000 customers over a very large area based solely on Staff's
4 incomplete theoretical analysis.

5 **Q. IS STAFF'S THEORETICAL ANALYSIS CONSISTENT WITH**
6 **COMMISSION POLICY?**

7 **A.** No. Staff fails to even acknowledge the Proposed Tiered Rate Design Policy posted
8 on the Commission's web site, which states in part:

9 Criteria for evaluating the appropriateness and/or type of tiered
10 rate structure on a case-by-case basis shall include, but not be
11 limited to, the following:

- 12 1. Number of service connections on the system.
- 13 2. Number of high usage customers on the system.
- 14 3. Gallons of average water usage per connection per
15 month.
- 16 4. Gallons of median water usage per connection per
17 month.
- 18 5. Source of supply.

19 Staff makes no effort to even address these factors and, as a result, the theoretical
20 basis of the proposed rate design is poorly explained and not supported. The proposed
21 rates are discriminatory and fail to meet cost of service standards that specifically
22 address the unique aspects of each system. This is rather ironic given Staff's
23 opposition to consolidation when it is proposed by the Company to moderate rate
24 impacts on small systems because they oppose subsidies and state that rates must be
25 cost based. Nevertheless Staff seems perfectly willing to produce and accept
26 subsidies within systems that require the larger meter sizes to subsidize the smaller
customers.

1 Q. PLEASE DESCRIBE SOME OF YOUR SPECIFIC CRITICISMS AND
2 CONCERNS WITH THE THEORETICAL SUPPORT FOR THE
3 EXPERIMENTAL RATE DESIGN CONCEPTS ADVANCED BY STAFF.

4 A. Staff proposes an experimental, marginal cost rate design approach for approximately
5 30,000 customers in all eight Eastern Group systems that has never been used in
6 Arizona. This novel rate design approach is not widely used by the majority of
7 United States water utilities, especially investor-owned utilities. Many of the
8 published articles dealing with actual use involve government-owned water utilities
9 that normally base the current year's rates on future budgeted capacity additions.

10 The first citation in Mr. Thornton's testimony is to an article by Mann
11 "Marginal-Cost Pricing: Its Role in Conservation." Staff's quote includes the
12 following sentence.

13 A few water utilities have adopted seasonal or inverted-block
14 pricing based on estimations of marginal-cost differentials by
15 season or demand function. The scaling requirement, however,
16 along with other factors, has limited the appeal of this rate
17 setting approach.¹

18 However, Staff does not discuss the scaling requirement or address the other factors
19 in the quotation that limit the appeal of this approach.

20 Another concern raised in the article is:

21 The critical step in the AIC approach is the selection of the
22 output denominator in calculating the AIC. The cost numerator
23 can be divided by a measure of designed capacity. The use of
24 designed capacity may, however, underestimate AIC because
25 there is no recognition of reserve or unused capacity. The
26 procedure also does not recognize the magnitude of lost or
unaccounted-for water.²

¹ Direct Testimony of John S. Thornton ("Thornton Direct") at 3, ls. 20-24.

² Dr. Patrick Mann, "Marginal-Cost Pricing: Its Role in Conservation" Published in the *Journal of the American Water Works Association* and available at <http://www.cepis.ops-oms.org/muwwww/fulltext/repind48/marginal/marginal.html>

1 Yet, again, Staff does not provide any explanation of how it selected its output
2 denominator, how they dealt with reserve or unused capacity or unaccounted for
3 water in each Eastern Group system. More importantly Staff computes one average
4 incremental cost or AIC for the Apache Junction system and then blindly applies it to
5 all of the Eastern Group systems despite the significant differences between Apache
6 Junction and the remaining small and geographically diverse systems. Reserve
7 capacity and unaccounted-for water are not uniform throughout the eight systems, nor
8 is investment per customer, customer growth or water demand per customer. The
9 systems are more different than they are similar.

10 **Q. DO YOU HAVE CONCERNS ABOUT THE OTHER PUBLICATIONS STAFF**
11 **APPEARS TO BE RELYING ON TO SUPPORT ITS EXPERIMENT IN RATE**
12 **DESIGN?**

13 **A.** Yes. Staff identifies a case study applying the marginal cost principal to setting rates
14 for water utility service. Presumably, this indicates that Staff has read, agrees with
15 and has generally followed the article, which makes the following statements.

- 16 • The study consisted of six tasks:
 - 17 1. develop an understanding of MMWD's (the Marin
18 Municipal Water District) water supply-demand
19 situation, operations and customer characteristics;
 - 20 2. review the current rate structure and identify related
21 problems;
 - 22 3. prepare a list of rate setting objectives;
 - 23 4. review and evaluate potential alternative rate
24 structures;
 - 25 5. formulate a rate structure that best achieves the stated
26 rate-setting objectives; and
 6. recommend a new rate structure to the board of
directors.

- 1 • Marginal capital costs were developed using the long-term
2 capital program to estimate the incremental cost of developing
3 additional water supplies.
- 4 • The rates proposed...were intended to eliminate existing
5 subsidies among different customer classes and between large
6 and small users.
- 7 • Fluctuations in revenue needs would be accommodated
8 through the build-up and drawdown of reserves.
- 9 • With a three tier rate structure, only 3 percent of water use
10 would be priced at the highest tier in FY1993-94. Similarly,
11 about 13 percent of the water use would be priced at the
12 second tier. The remaining 84 percent would be priced at the
13 first tier rate.³

14 Staff certainly has not provided any testimony to indicate that it followed any of the
15 procedures in this article or explained why any variations might be justified. Staff
16 also deviated from the recommended rate approach by recommending only one
17 uniform set of break points for all meter sizes in all eight systems where the
18 commodity cost would increase. The MMWD design, on the other hand, recognized
19 that there should be different break points for different size users and established
20 three breakpoints for one system based on customer characteristics to avoid subsidies
21 and discrimination.

22 **Q. WHAT OTHER STATEMENTS IN STAFF'S THEORETICAL RATE**
23 **DESIGN DISCUSSION MAY LEAD THE READER TO INCORRECT**
24 **CONCLUSIONS?**

25 **A.** First, Staff makes the following statement (Thornton Direct at 6):

26 Economists would say that water is 'price inelastic.' Therefore,
Staff did not make any changes to test-year bill counts in
conjunction with the three tiers.

The fact that water is generally regarded as price inelastic does not mean that rate
design can disregard the effect of price elasticity. Price inelastic only means that the

³ Robert Reed and Ronald Johnson, "Developing Rates With Citizen Involvement" *Journal of the American Water Works Association*, vol. 86, no. 10 (October 1994).

1 percentage change in quantity is less than the related percentage change in price.

2 The following description of price elasticity from the NRRI manual contradicts
3 Staff's conclusion:

4 In economics, demand is viewed as the inverse relationship
5 between price and quantity consumed. The price elasticity of
6 demand measures the percentage change in quantity demanded
7 in response to a percentage change in price. That is, price
8 elasticity measures the sensitivity of quantity consumed to price
9 changes. Estimating price elasticity is an important component
10 of demand forecasting and revenue projection. If a rate change
11 is anticipated, its effect on demand and revenues must also be
12 anticipated by utilities and their regulators.⁴

13 The discussion goes on to give some estimates of price elasticity for water demand.

14 The literature as a whole suggests that a likely range of
15 elasticity for residential water demand is between -.20 and -.40,
16 which is relatively price inelastic.⁵

17 According to Staff's response to Arizona Water's Data Request No. 4.8, Staff relied
18 on the entire NRRI handbook "Cost Allocation And Rate Design For Water Utilities"
19 to design its Eastern Group rates. See Staff Response to 4.8 attached hereto at Exhibit
20 RJK R-1. However, this does not actually appear to be the case.

21 Given a single price increase of 20% the percentage change in quantity of
22 water demanded at elasticities of -.20 and -.40 would be -4% and -8%, respectively.
23 Staff's tiered rate design incorporates two 20% price increases and ignores the effects
24 of price elasticity. Price really does matter as made clear by the customers from San
25 Manuel appearing at the public comment session on June 23, 2003 who stated that

26 ⁴ "Cost Allocation and Rate Design for Water Utilities". Published by National Regulatory Research
Institute, December 1990, page 31.

⁵ *Id.*

1 price increases would affect their consumption.

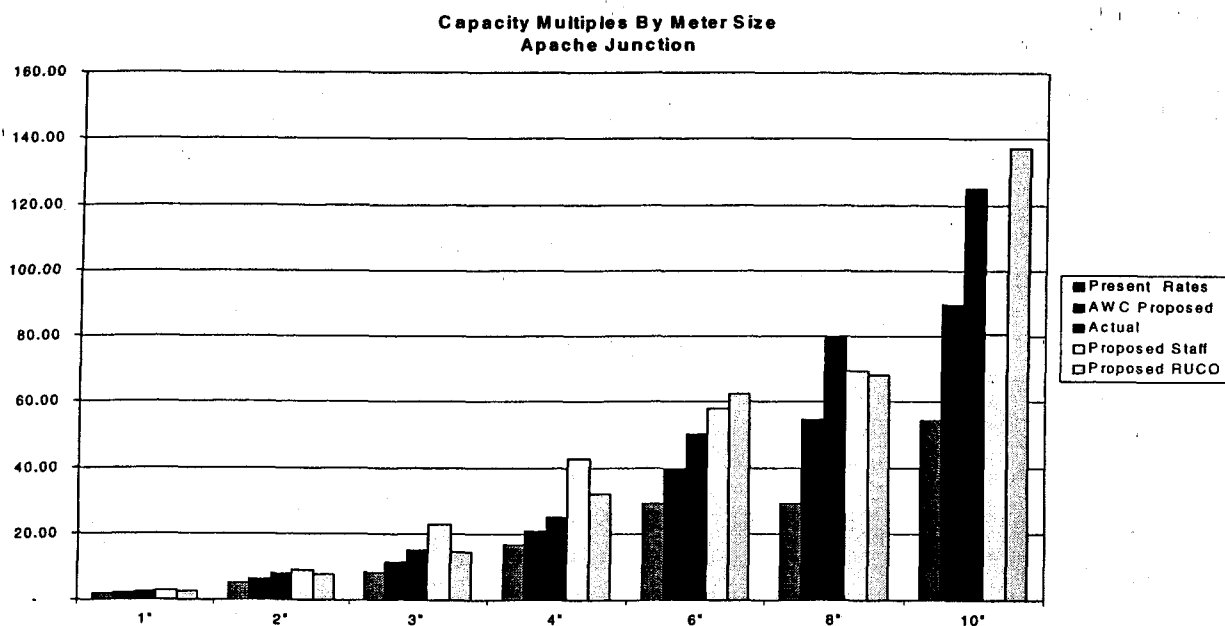
2 Second, to demonstrate that the Commission has previously approved inverted
3 block rates for water utilities, Mr. Thornton cites four recent Commission Decisions.
4 Thornton's Direct at 7. Each of those utilities has approximately 500 customers.
5 Although these systems have something in common with the Winkleman system, the
6 fact that they have tiered rates, some of which appear to have been requested by the
7 utility, is not an argument for adopting experimental tiered rates for the 30,000
8 Eastern Group customers in eight different systems.

9 **Q. HAVE BOTH STAFF AND RUCO DEVIATED FROM THE EXISTING COST**
10 **OF SERVICE BASED RATES?**

11 A. Yes. The existing rates, like those in the recent Northern Group Rate Case, became
12 effective in January 1993 and were based on a cost of service study submitted by the
13 Company. Docket No. U-1445-91-227. The actual authorized rates deviated somewhat
14 from the pure cost based rates to moderate the impact on customers. There were two
15 main adjustments. The recommended elimination of 1,000 gallons of free water in
16 the minimum charge was postponed. The other change to moderate the impact on
17 larger meter sizes was to delay full implementation of the actual meter multiples. A
18 meter multiple scales the minimum rate for the 5/8" meter by the capacity multiple of
19 each larger sized meter. The Company's proposed rate design, which followed the
20 same principles as recommended and approved in the recently concluded Northern
21 Group Phase I rate case, addressed the two moderating adjustments reflected in the
22 existing, cost based rates. First, the 1,000 gallons of free water in the minimum charge
23 was eliminated. Second, following the principle of gradualism in rate design, each
24 system's existing meter multiples were moved half way toward the actual meter
25 multiples. The existing cost based meter multiples, the Company's recommended
26

multiple, the actual capacity multiple, Staff's proposed multiple and RUCO's proposed multiple for each meter size in each system are illustrated on Exhibit RJK R-2. The first chart of this exhibit, for the Apache Junction system, is shown below.

The first three bars for each meter size (existing cost based meter multiples, Arizona Water's recommended multiple, the actual capacity multiple) demonstrate the logical, consistent and gradual movement of the existing meter multiples in the



Company's proposed rate design toward the actual capacity multiple in the third bar. The illogical, haphazard and erratic changes proposed by Staff and RUCO's proposed rate designs is confirmed by looking at their meter multiples, shown as the fourth and fifth bar respectively in the above chart and all the Charts of Exhibit RJK R-2. Sometimes they exceed the actual capacity multiplier (the third bar) and at other times they are below it.

Q. WHAT DOES YOUR EVALUATION OF THE STAFF'S EXPERIMENTAL RATE DESIGN SHOW?

A. There is a one overriding, fundamental and ultimately fatal flaw in Staff's proposed

1 rates: discrimination among meter sizes to favor the smaller size meters with lower use.
2 In each of the eight Eastern Group systems, Staff is proposing a disproportionate
3 increase in the larger size meters. This discrimination in Staff's proposed rate design
4 comes about in two ways. First, by increasing the meter multiples beyond the actual
5 capacity multiple (the third of the five bars shown on Exhibit RJK R-2 for each system
6 and meter size. As the exhibit shows, this discrimination also is present in RUCO's rate
7 design proposal. Second, Staff goes on to discriminate against the larger size meters by
8 recommending only a single set of break points (the consumption levels above which a
9 higher price commodity tier becomes effective) for all meter sizes and all eight systems.
10 The percent of commodity use that is priced at the highest Tier 3 level for each Apache
11 Junction meter size is presented on Exhibit RJK R-3 to illustrate the problem. This
12 exhibit shows that the 5/8-inch meter category consumption does not go beyond the
13 second 50,000 gallon break point. However, each larger size meter has an increasing
14 percentage of consumption above the third 100,000 gallon break point that is subject to
15 the highest Tier 3 commodity rates. The upward sloping trend line is further graphical
16 evidence of the benefit given to the 5/8-inch meter customers to the detriment of
17 customers' with the larger size meters.

18 The linear trend of percentage increases across all meter sizes confirms the
19 clearly discriminatory effect of Staff's proposed experimental rate design on the Apache
20 Junction customers. Since the same tiered rate design, with a single, uniform set of break
21 points is applied to each Eastern Group system, the resulting rates for the other systems
22 will show a similar trend to the Apache Junction trend shown on Exhibit RJK R-3.

23 In short, Staff's proposed experimental rate design is a bad experiment that
24 should not be imposed on 30,000 Eastern Group customers. It should be sent back to the
25 drawing board for a complete overhaul and then tried out a smaller systems until its
26

1 board for a complete overhaul and then tried out a smaller systems until its results are
2 predictable. It is sheer folly to recommend such a radical and untested rate design
3 concept for 30,000 customers. In the future each system's unique characteristics must be
4 considered and utilized to design fair and non-discriminatory rates. There is no easy
5 solution to developing reasonable and non-discriminatory rates of the type Staff is
6 proposing. It requires much more work, analysis, evaluation and explanation than Staff
7 has devoted to the task in this proceeding. Staff's rate design and RUCO's should be
8 rejected.

9
10 **IV. APACHE JUNCTION AND SUPERIOR SYSTEM CONSOLIDATION**

11 **Q. HAS THE COMPANY REVIEWED THE STAFF'S RECOMMENDATION**
12 **CONCERNING CONSOLIDATION OF THE APACHE JUNCTION AND**
13 **SUPERIOR SYSTEMS?**

14 A. Yes, Mr. Whitehead and I have reviewed and will comment on Staff's
15 recommendation related to the consolidation of the Apache Junction and Superior
16 systems. Mr. Hammon bases his opposition to rate consolidation at this time on two
17 reasons. The first reason is that Mr. Hammon believes that a detailed cost of service
18 study would need to be presented to address alleged inequalities. The second reason
19 for Mr. Hammon's opposition is that the systems are not physically interconnected at
20 this time. Mr. Hammon believes that a detailed cost of service study would need to be
21 presented to address alleged inequalities. Hammon Direct at 3.

22 **Q. DOES THE COMPANY AGREE?**

23 A. No. The Company disagrees with Mr. Hammon that a detailed cost of service study is
24 needed to address alleged inequalities. It is interesting that Mr. Hammon doesn't
25 believe that a detailed cost of service study is required for Staff's proposed
26 experimental rate design but believes it is required for consolidation. The Company's

1 initial step toward consolidation would merely unify the monthly minimum rates that
2 would be charged. Apache Junction's and Superior's billing districts would be
3 maintained and customers would be billed at the rates authorized in this proceeding,
4 which would include a unique commodity charge for each system. Direct Testimony
5 of Ralph J. Kennedy at 11. Then, in a subsequent Eastern Group rate proceeding, the
6 Company would propose a common commodity charge for all Apache Junction and
7 Superior customers, the second step of the proposed rate consolidation.

8 Mr. Hammon expressed a concern over consolidation since there was no
9 physical interconnection. Today's Staff may think this is a requirement for
10 consolidation but it runs counter to over thirty-five years of Commission decisions on
11 the Company's applications that approved rate consolidation without requiring a
12 physical interconnection. Physical interconnection was never a necessary condition
13 for previous Company rate consolidations and it shouldn't be now. It is wrong to
14 elevate interconnection above so many other important considerations.

15 Physical interconnection, however, will be a fact before the next Eastern
16 Group rate case is filed and rate consolidation should be positively addressed now to
17 reduce the overall impact on customers in the next Eastern Group general rate case.
18 Two gradual steps are preferable to one large disruptive step in the next rate case after
19 interconnection. has been completed. As Mr. Whitehead testified there is a timetable
20 for interconnecting these systems. On December 27, 2001, the Company filed an
21 application with the Commission requesting approval of an extension of its existing
22 CC&N to include additional properties in Pinal County, the area that would physically
23 interconnect the two systems. See Docket No. W-01445A-01-1012. A Staff Report
24 in the referenced docket was issued in May 2003 and a hearing was conducted on July
25 24, 2003. Staff recommended approval of the application for the extension of
26

1 Arizona Water's CC&N subject to three compliance conditions: 1) Company is
2 required to charge its existing Apache Junction rates and charges in the proposed
3 extension area; 2) Company is required to file a Curtailment Tariff and report within
4 30 days of the effective date of any decision in this matter (the CC&N matter); and 3)
5 Company is required to file a developer's Certificate of Assured Water Supply related
6 to the proposed extension area within 365 days of the effective date of the decision in
7 this matter (CC&N matter).

8 If the application is approved and the CC&N extended, the Apache Junction
9 and Superior systems will then be physically interconnected. At that point, all
10 indications are that Apache Junction and Superior will be able to share water supplies
11 providing additional reliability and CAP water to the Superior customer base and
12 providing a larger base of customers to the Apache Junction system to support
13 required facility additions such as arsenic treatment facilities and new wells. As such,
14 consolidation would be beneficial to both Superior and Apache Junction customers
15 and should be approved at this time.

16 **Q. MR. WHITEHEAD HAS TESTIFIED THAT APACHE JUNCTION AND**
17 **SUPERIOR WILL BE INTERCONNECTED WITHIN TWO YEARS. WHAT**
18 **HAPPEN IF THESE SYSTEMS ARE NOT COMBINED FOR RATE**
19 **PURPOSES NOW IN THE TWO STEP PROCEDURE RECOMMENDED BY**
20 **THE COMPANY?**

21 **A.** Based on the Company's original request Apache Junction revenues would have to
22 increase 16.7%, on a stand-alone basis, and Superior's would have to increase 71.4%.
23 These percentages are based on the current revenue requirements for each system.
24 They do not include the further impact of arsenic treatment facilities and their annual
25 operating cost. The Superior system's arsenic treatment facilities will have a
26

1 construction cost of \$1,682,813 which is 63% of Superior's original cost rate base of
2 \$2,673,576 as proposed by the Company (Schedule B-1, page 2, line 8). the Superior
3 system will also incur additional annual arsenic treatment Operation and Maintenance
4 expenses of \$182,374 based on evidence submitted by the Company in the Northern
5 Group Phase II ACRM proceeding (Exhibit RJK2-4). Since these systems will be
6 interconnected before the next general rate application, beginning the eventual rate
7 consolidation now, in the two step procedure the Company recommends, offers at
8 least three distinct advantages. First, by consolidating the minimums now and the
9 commodity rates in the next proceeding, the required revenue increase for Superior
10 can be reduced from 71.4% to 8.9%. This is achieved with less than a 6% additional
11 increase in Apache Junction's revenue requirement from 16.7% to 22.2%. Second, a
12 larger combined system will moderate the arsenic impacts on the already
13 overburdened Superior customers. Finally, the Company's two-step-proposal would
14 move the rates of each system closer together now rather than driving the existing
15 stand alone rates even further apart as Staff and RUCO recommend. The Company's
16 proposed gradual approach will simplify and minimize both the consolidation impact
17 in the next rate proceeding and the impact of arsenic treatment facilities on the
18 Superior customers.

19 **V. COST OF CAPITAL RISKS**

20 **Q. DO YOU AGREE WITH STAFF REGARDING ADDITIONAL RISKS**
21 **ASSOCIATED WITH PLACEMENT OF BONDS IN THE CAPITAL**
22 **MARKETS?**

23 **A.** No. I do not. *See* Direct Testimony of Joel M. Reiker ("Reiker Direct") at page 55,
24 ls. 16-24. Like much of Mr. Reiker's testimony, the Company disagrees with Staff's
25 general approach as well as its conclusions. Dr. Zepp will elaborate in far more detail
26

1 in his rebuttal testimony, as supplemented by my testimony.

2 **Q. HAS STAFF PROPERLY ACCOUNTED FOR THE COMPANY'S**
3 **EXPERIENCE AND DIFFICULTY IN PLACING ITS SERIES K BOND**
4 **ISSUE?**

5 A. No, Mr. Reiker continues to ignore the Company's experience before it was finally
6 able to issue its Series K bonds. In dismissing Dr. Zepp's claim that Arizona Water
7 faces additional risks in placing future bond issues, Mr. Reiker avoids making the
8 necessary cost of capital adjustments to address this additional risk. *See* Reiker Direct
9 at pages 55-56, ls. 16-24, 1-5.

10 **Q. WHAT EMPIRICAL EVIDENCE CAN YOU CITE REGARDING THE**
11 **MARKET FOR THE COMPANY'S BONDS?**

12 A. Unlike prior bond solicitations to insurance companies, not one of the potential buyers
13 even responded to our September 2000 request for bids. By comparison, in 1990, the
14 Company was able to choose from ten alternative bids within two weeks of issuing its
15 request and received a binding purchase commitment in less than five weeks.

16 **Q. HOW DO YOU EXPLAIN THE LACK OF RESPONSES TO THE**
17 **COMPANY'S SEPTEMBER 2000 REQUEST FOR BIDS?**

18 A. I specifically contacted a number of potential purchasers to determine why they had
19 not responded to our solicitation. The directors of private placement with whom I
20 spoke told me that \$20 million to \$25 million was the minimum issue they would
21 consider, preferring issues in the \$50 to \$100 million range. They also expressed a
22 preference to acquire larger, more liquid issues for their portfolio rather than several
23 smaller, lesser-known issues as their costs of due diligence, accounting and
24 administration do not vary significantly for issues between \$10 and \$100 million.

25 **Q. HOW IS THE CURRENT MARKET FOR THE COMPANY'S BONDS**
26

1 **DIFFERENT FROM THE 1990 MARKET?**

2 A. The market for the Company's bonds has undergone fundamental changes and now
3 consists of fewer but larger companies with more sizeable investment portfolios. A
4 number of the companies we formerly did business with have merged or been
5 acquired, increasing the size of the remaining entities. Many of the larger, leaner,
6 more sophisticated entities have an appetite for much larger bond issues. Their
7 financial staffs have been reduced and their portfolios combined. For example, First
8 Colony Life Insurance Company purchased our entire \$6 million Series J Bond issue
9 in 1990, although we also had less competitive bids for various portions of that issue.

10 General Electric Company has since acquired First Colony. Occidental Insurance
11 Company and Transamerica Insurance Company, former bidders and bondholders, are
12 now Aegon USA Investment Management Inc. Indianapolis Life Insurance
13 Company, a former bondholder, is now AmerUS Capital Management. The Franklin
14 Life Insurance Company, another former bondholder and bidder, is now American
15 General Investment Management.

16 **Q. WHAT STEPS DID THE COMPANY TAKE WHEN IT REALIZED THAT IT**
17 **WAS FACING A DIFFERENT MARKET FOR ITS BONDS?**

18 A. After the failure of the first September 2000 bond solicitation, two potential
19 purchasers with large investment portfolios that were not on the initial request for
20 bids list were identified in November and December of 2000. These large potential
21 purchasers were willing to negotiate buying the Company's Series K issue but stated
22 up front that they would require a "liquidity premium." Without any other interest in
23 our bonds, the Company began negotiations with both entities. In subsequent
24 negotiations with Matthew Armas of General Electric Financial Assurance and Mr.
25 Ben Vance of Provident Investment Management, the potential purchasers added a
26

1 "liquidity premium."

2 Q. DO YOU KNOW THE SPECIFIC REASONS WHY THESE LARGE,
3 SOPHISTICATED INVESTORS REQUIRED A "LIQUIDITY PREMIUM"?

4 A. Yes. I specifically inquired as to why they demanded a "liquidity premium." They
5 expressed the following concerns about the Company's Series K issue:

- 6 1. The size of our proposed issue.
7 2. The small size of Arizona Water Company.
8 3. The small number and value of other outstanding issues.
9 4. The low number of holders of outstanding issues.

10 These potential purchasers concluded that because of these factors, selling or trading
11 our Series K issue would be more difficult than other issues in their portfolios. In
12 fact, General Electric finally concluded it wasn't interested in our bonds even with a
13 "liquidity premium." Actual investors in the Company's common stock are likely to
14 have the same concerns.

15 Q. WHAT HAPPENED WITH THE PROVIDENT NEGOTIATIONS?

16 A. Before accepting Provident's terms, the Company learned that Pacific Mutual had
17 received approximately \$15 to \$20 million of new long-term money that it wanted to
18 invest for thirty years. I immediately flew to California and met with Pacific Mutual's
19 Director of Private Placements. Fortuitously, their new requirements happened to
20 dovetail almost exactly with the Company's needs. Less than two weeks after
21 learning of their new requirements, we were able to agree on significantly better terms
22 for the Series K issue than Provident was demanding.

23 Overall, however, it took the Company 141 days to obtain a purchase
24 commitment for its Series K bond issue as compared to only 34 days for its Series J
25 bond issue. Although the Series K issue was 2 1/2 times larger than the Series J issue,
26

1 it was still too small for most of the now larger potential buyers.

2 **Q. ARE THERE OTHER COMPANY-SPECIFIC REQUIREMENTS THAT**
3 **IMPACT THE RISK FACTORS THAT SHOULD BE REFLECTED IN THE**
4 **COMPANY'S COST OF CAPITAL?**

5 **A.** Yes, particularly the costs of constructing and operating the required arsenic treatment
6 facilities. By January 23, 2006, the Company must design, construct and operate
7 arsenic treatment facilities to comply with the revised arsenic maximum contaminant
8 level ("MCL") standard recently adopted by the United States Environmental
9 Protection Agency ("EPA"). The arsenic treatment facilities must have a combined
10 total treatment capacity of 60.65 million gallons per day. The Company's total arsenic
11 treatment capital costs are estimated to be \$30 million. By 2006 at the latest, annual
12 arsenic treatment O&M expenses will have increased to \$5.3 million annually. Given
13 the limited time frame between now and the EPA's January 23, 2006 deadline and the
14 task facing the Company to finance an additional \$30 million and construct as many
15 as fifty arsenic MCL facilities company-wide, the deadline will not be met if earnings
16 or cash flow during this period become inadequate. Even if an ACRM that follows the
17 Staff and Company's recommendation in the Northern Group's Phase II proceeding is
18 adopted for both the Northern Group in that proceeding and then also for the Eastern
19 Group in this proceeding, it will only pertain to completed, in-service arsenic
20 treatment facilities. Although the Western Group accounts for 46% of the arsenic
21 costs, due to the time it will take to complete a rate case there will be no ACRM to
22 provide partial relief for the Western Group. The risk of obtaining construction
23 financing and dealing with at least the first 12 months of annual arsenic O&M
24 expenses for each facility will continue to stress the Company's earnings and ability to
25 finance the required facilities.
26

1 The Company is currently awaiting a Commission decision on its request in
2 Phase II of the Northern Group's rate case for an Arsenic Cost Recovery Mechanism
3 ("ACRM"). In that proceeding, the Company presented evidence that, if the ACRM
4 as recommended by the Company was approved, 86% of the revenue requirements for
5 Company-wide arsenic treatment capital and operating costs would still be excluded
6 from the adjustment mechanism (the revenue requirements for the capital and O&M
7 arsenic treatment costs for the Eastern and Western Groups in the following table). If
8 an ACRM is approved for both the Northern and Eastern Groups 46% of the total
9 Company revenue requirements for the capital and O&M arsenic treatment costs will
10 still be excluded from the adjustment mechanism. There is not sufficient lead time to
11 complete a general rate case for the Western Group and put an ACRM into effect. The
12 following table summarizes the arsenic treatment capital costs anticipated for Arizona
13 Water Company.

14 **ARSENIC TREATMENT CAPITAL COSTS BY GROUP**

| | Dollars | Percent |
|----------------|-------------------|--------------|
| Northern Group | \$ 3,950,449 | 13.4% |
| Eastern Group | 12,052,993 | 40.8% |
| Western Group | <u>13,555,971</u> | <u>45.9%</u> |
| Total Company | \$ 29,559,412 | 100.0% |

20 The arsenic treatment O&M revenue requirements are at least equal to the arsenic
21 treatment capital revenue requirements.

22 If an ACRM comparable to the recommendation by the Company in the
23 Northern Group Phase II is authorized for the Eastern Group as requested in this
24 docket, the annual revenue requirement for approximately \$14 million of capital costs
25 for the Western Group will still be excluded from an adjustment procedure along with
26

1 the related and approximately equal arsenic treatment O&M costs. Since the
2 proposed Northern Group ACRM deals with completed, in-service arsenic treatment
3 facilities and actual historic arsenic treatment O&M., the Company must still
4 somehow finance the construction of arsenic treatment facilities and pay to operate
5 them. Even with the recommended but limited ACRM, the Company faces unique
6 arsenic risks that will not be experienced by the companies in the Staff's comparable
7 entities and the cost of capital must be adjusted to reflect these unique additional
8 risks.

9 **Q. WHAT OVERALL WEIGHTED COST OF CAPITAL ARE YOU**
10 **RECOMMENDING?**

11 **A.** I am not recommending a revised overall weighted cost of capital at this time. I will
12 make such a recommendation in my rejoinder testimony if necessary.

13 **IV. DEPRECIATION METHODOLOGY**

14 **Q. STAFF RECOMMENDS ADOPTION OF NEW COMPONENT RATES**
15 **APPLICABLE TO ALL OF ARIZONA WATER'S EIGHTEEN SYSTEMS.**
16 **DOES THE COMPANY AGREE WITH THIS RECOMMENDATION?**

17 **A.** The Company is not opposed to the new component depreciation rates set forth on
18 Exhibit E to Mr. Hammon's direct testimony. Application of the new component
19 rates in the Eastern Group can begin upon issuance of a decision in this proceeding.
20 However, the application of the new component rates in the Northern and Western
21 Groups, on the other hand, should not occur until the completion of the Northern and
22 Western Groups' next general rate case in which the associated increase or decrease in
23 expense can be incorporated into the appropriate group's rates.

24 **V. NP-260 CAP TARIFF**

25 **Q. STAFF IS RECOMMENDING MODIFICATIONS TO THE EXISTING NP-**
26

1 **260 TARIFF. DOES THE COMPANY AGREE WITH THE PROPOSED**
2 **CHANGES?**

3 A. The NP-260 Non-Potable Central Arizona Project Water Tariff ("NP-260 tariff") was
4 designed to pass through to the non-potable customers all of the costs involved in
5 providing non-potable water service plus amounts for administration so as to be as
6 income neutral as possible while avoiding passing costs onto the potable customers.
7 The NP-260 tariff, as designed, places all of the applicable costs of service on the
8 appropriate customers while encouraging the conservation of groundwater. The
9 changes being proposed by Staff may seem trivial on their face, but maintaining the
10 proper split of all applicable non-potable costs is fundamental to the Company's
11 position on its NP-260 tariff. The Company agrees with Staff's proposal to eliminate
12 the depreciation expense component from the NP-260 tariff. Hammon Direct at 16.

13 Mr. Hammon is also recommending a revision to the fixed monthly meter
14 charge (*id.*), which was based upon the monthly minimum charge applicable to
15 customers having comparable meter sizes. The rationale was that if the cost of
16 service for a comparable sized meter dictated a monthly minimum of X dollars, then
17 the same monthly minimum should be charged to the non-potable water user. The
18 Company agrees with this concept and believes that the existing tariff language in
19 item 2 in the **MONTHLY BILL** section already does this. Item 2 states: "A meter
20 change based on the applicable monthly minimum charge by meter size as set forth in
21 each systems General Service tariff schedule." The existing language is sufficient to
22 adjust the meter charges for the NP-260 customers to the same revised amount as the
23 General Service customers' meter charge. The monthly minimum charges that are
24 approved as a result of a decision in this proceeding will become the "applicable
25 monthly minimum charge..." when the Company files new General Service tariffs.
26

1 Mr. Hammon is also recommending revision to the administrative charges to be
2 representative of the Company's actual administration costs. *Id.* The Company
3 believes that the estimated percentages in the current tariff are sufficiently
4 representative and should be continued. Finally, in addition to the foregoing tariff
5 revisions, Mr. Hammon is recommending revised terms and conditions of service to
6 place a greater burden on the Company on the operation and protection of the non-
7 potable service facilities, which have not been defined. *Id.* at 17. The decision
8 adopted in the SLV Properties complaint concluded that the Company properly
9 charged maintenance fees and related charges to the customer in that proceeding.
10 Decision No. 65755 (March 20, 2003) at 8, ls. 21-23. Staff's recommendation would
11 improperly shift this responsibility to the Company and the future costs to the potable
12 customers and therefore should not be adopted. In summary, except for eliminating
13 the depreciation component of the NP-260 tariff, the remainder of Mr. Hammon's
14 proposed changes are not necessary and should be rejected.

15 **VI. RECOVERY OF ARSENIC TREATMENT COSTS**

16 **Q. STAFF'S RECOMMENDATION FOR COST RECOVERY OF CAPITAL**
17 **AND OPERATING COSTS FOR ARSENIC TREATMENT WILL LIKELY BE**
18 **BASED UPON THE FINAL ORDER IN DOCKET NO. W-01445A-00-0962.**
19 **DOES THE COMPANY AGREE WITH THIS STATEMENT?**

20 **A.** Although the Company's approach to the Northern Group procedure has been to
21 propose an ACRM that could be used as a template for many water utilities, there will
22 be some issues that will be unique to each of the Company's three groups. As a result
23 of the unique issues, there may be minor differences adopted in the Eastern Group's
24 ACRM that may not be a part of the Northern Group's. Because of this, the decision
25 in this proceeding will have to address the Company's request for an ACRM for the
26

1 Eastern Group. Overall, however, I expect they will be essentially the same. Both the
2 Northern Group and the Eastern Group as well as other water utilities will benefit
3 from the time and expense the Company and Staff invested into developing an
4 ACRM. For this reason the Company is proposing to allocate the Northern Group
5 Phase II ACRM rate case expenses to the two groups that will be able to adopt and
6 benefit from the ACRM, the Northern and Eastern Groups.

7 **Q. PLEASE SUMMARIZE THE STATUS OF THE PHASE II PROCEEDINGS**
8 **DEALING WITH ARSENIC TREATMENT COST RECOVERY?**

9 A. Public hearings were held in October 2002 on the Company's request for an ACRM
10 and the Company's proposed rate consolidation. A Recommended Opinion and Order
11 was rendered on April 8, 2003 and considered by the Commission on April 22, 2003.
12 At the Commission's Open Meeting of April 22, 2003, it was determined that
13 additional evidence was needed to make a properly informed decision. Settlement
14 discussions were conducted, additional testimony was filed on June 16, 2003, and
15 subsequent hearings were held on June 26, 2003. Briefs will have been filed before
16 the hearing commences in this proceeding. A new recommended order will then be
17 issued.

18 **Q. HOW DOES THE COMPANY ENVISION THE INCLUSION OF AN ACRM**
19 **IN THIS PROCEEDING?**

20 A. Yes. The Commission should take Administrative Notice of Phase II of the Northern
21 Group's rate case proceeding when the hearing commences in this docket. The
22 decision in this proceeding can adopt an ACRM comparable to the ACRM authorized
23 for the Northern Group. The only nuance will be that the Northern Group decision
24 will address rate consolidation for the Sedona and Rimrock systems, which will not
25 be applicable in this proceeding. Instead, a decision on consolidating the Apache
26

1 Junction and Superior systems will be addressed as a part of this proceeding and the
2 Eastern Group ACRM can be modified to reflect such decision.

3 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY IN THIS**
4 **MATTER?**

5 **A.** Yes, except to add that the Company does not waive its right to challenge any
6 provision or recommendation not specifically addressed in my rebuttal testimony.
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EXHIBITS

STAFF'S RESPONSES TO
ARIZONA WATER COMPANY'S
FOURTH SET OF DATA REQUESTS
ACC DOCKET NO. W-01445A-02-0619

July 24, 2003

- 4.7 Please provide a copy of the NRRI publication *Cost Allocation and Rate design for Water Utilities* referred to on page 9 of John S. Thornton, Jr.'s testimony.

Response: Attached.

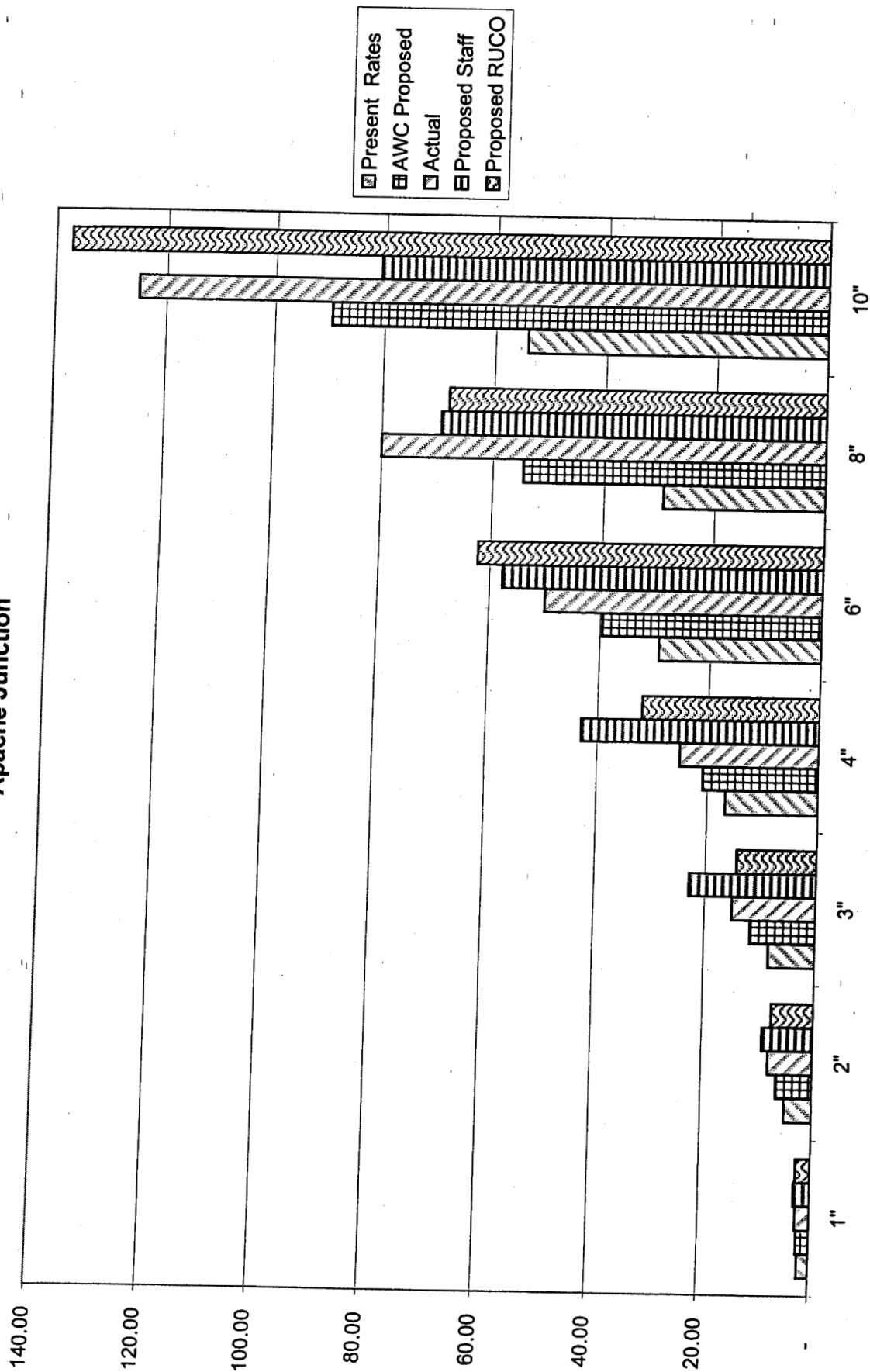
Response by: Ronald E. Ludders and Steven Olea for John S. Thornton, Jr.

- 4.8 Please describe and identify by page, paragraph and line numbers the specific portions of the above NRRI publication that Staff relied on in designing rates for the Eastern Group systems. If the portions of the publication identified in the first part of this question were not applied equally to the rate design of all Eastern Group systems identify the systems that received differing treatment or weight and explain Staff's rationale.

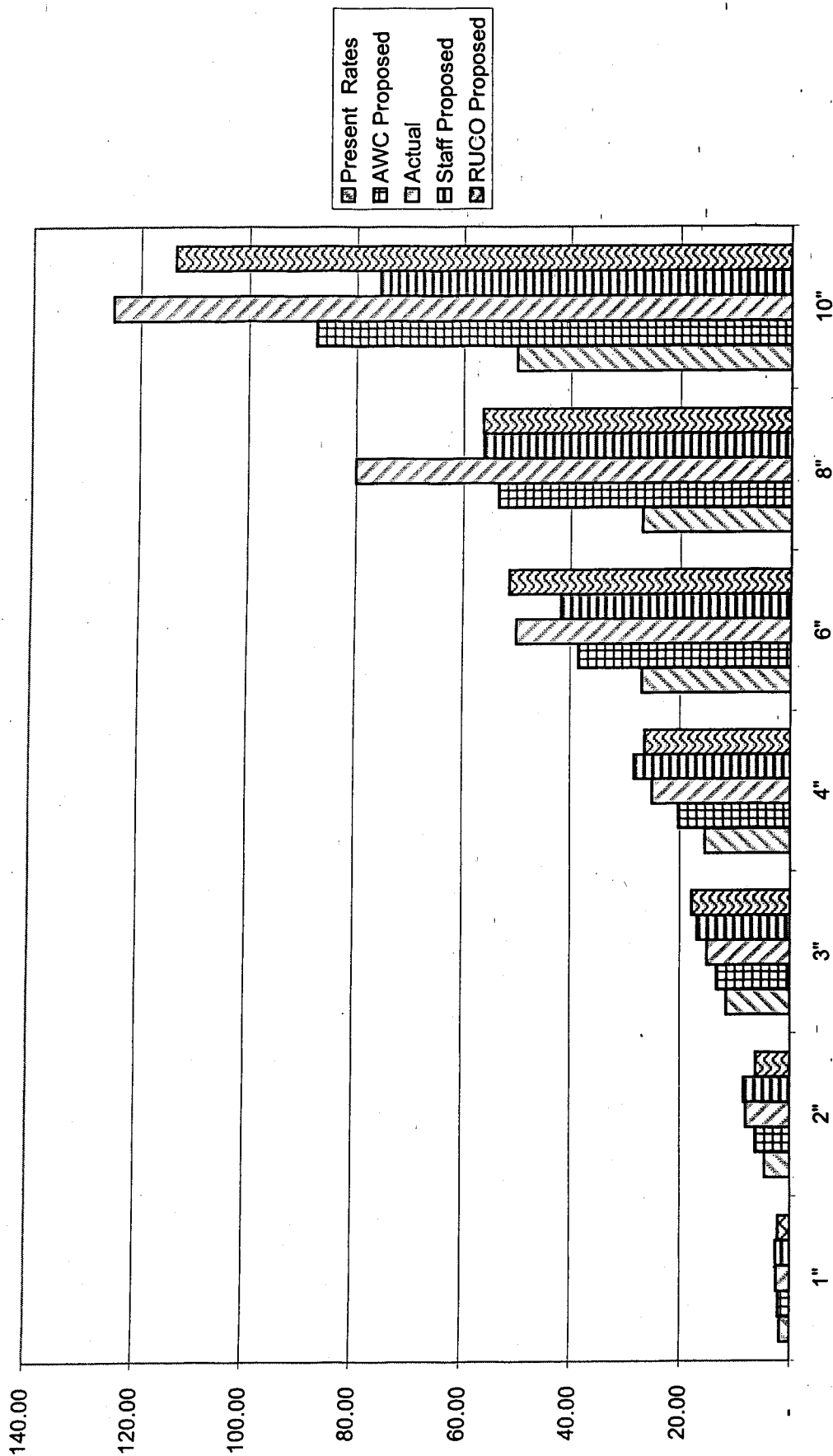
Response: Staff relied on the entire publication, especially pages 63-103 and 118-119. The publication does not contain paragraph or line numbers.

Response by: Claudio Fernandez and Steven Olea for John S. Thornton, Jr.

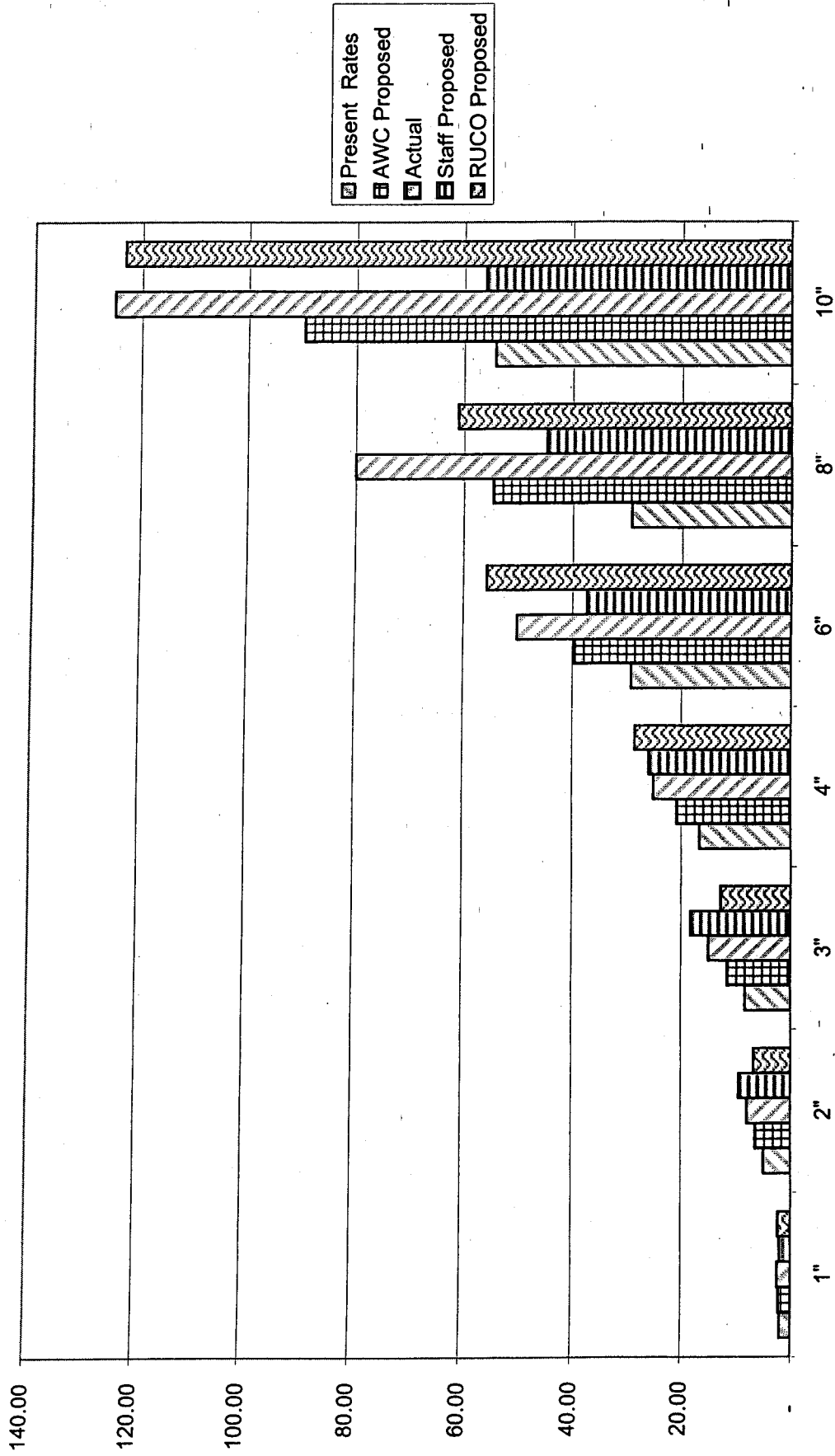
Capacity Multiples By Meter Size
Apache Junction



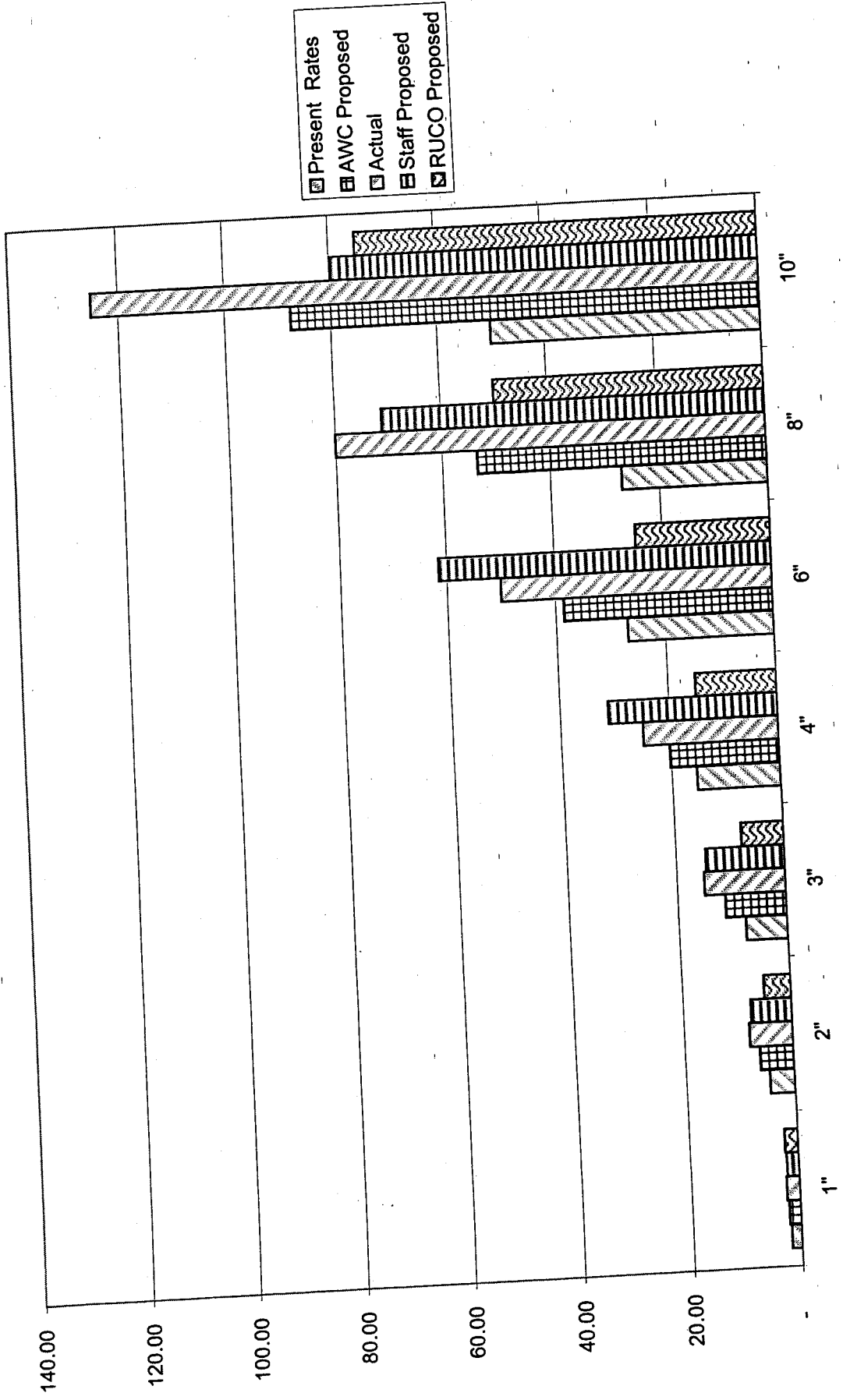
Capacity Multiples By Meter Size
Bisbee



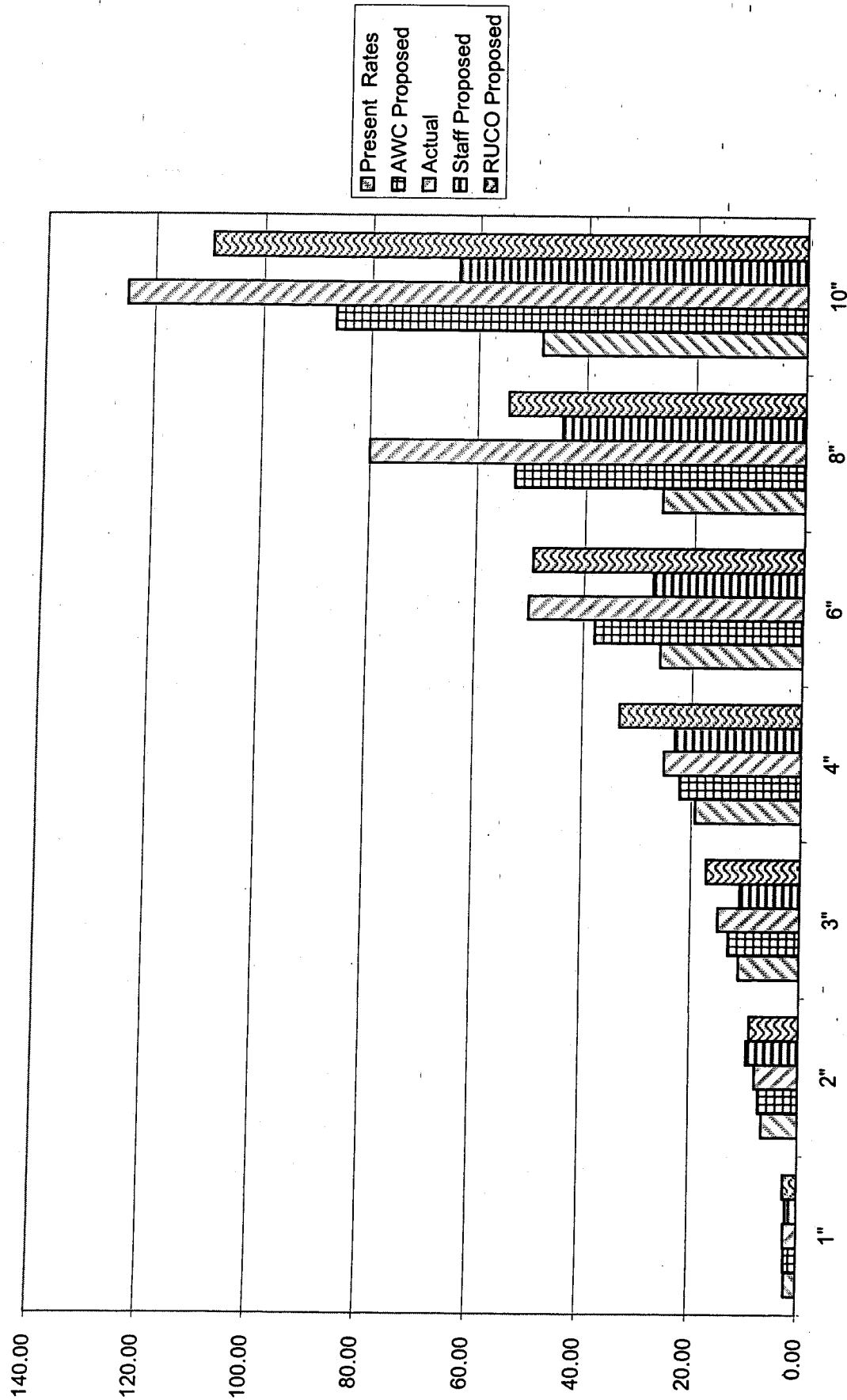
Capacity Multiples By Meter Size
Sierra Vista



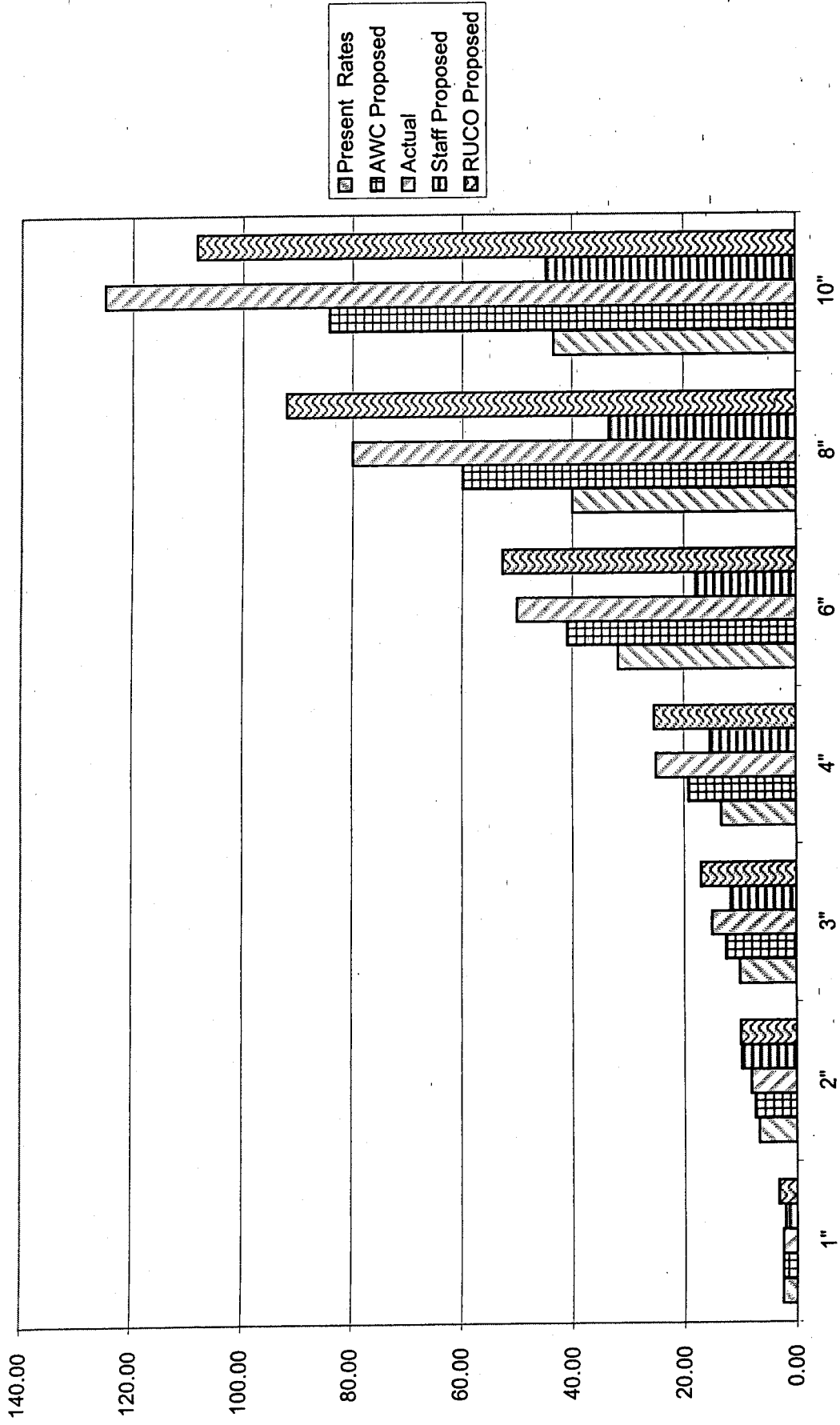
Capacity Multiples By Meter Size
Miami



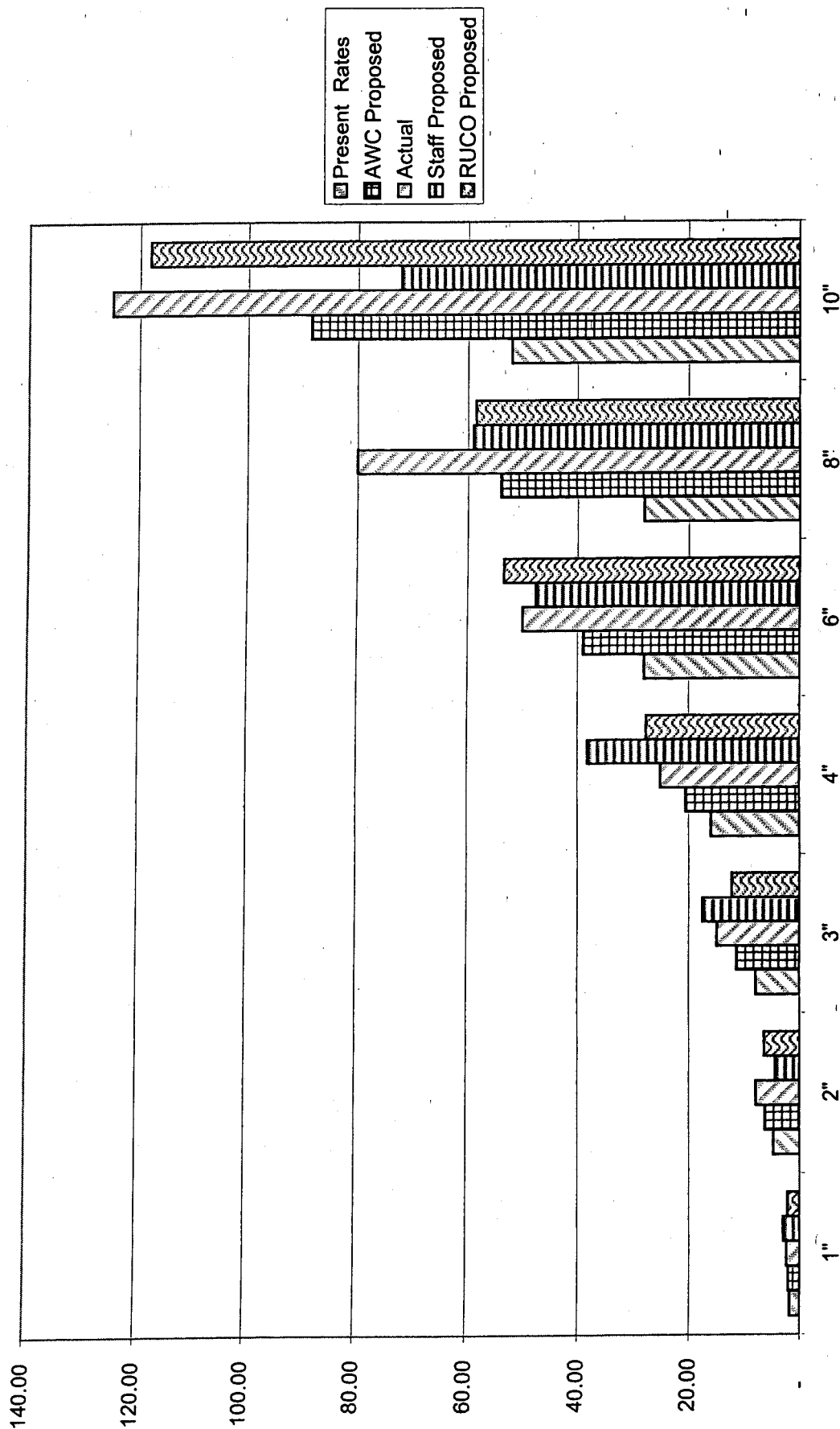
Capacity Multiples By Meter Size
San Manuel



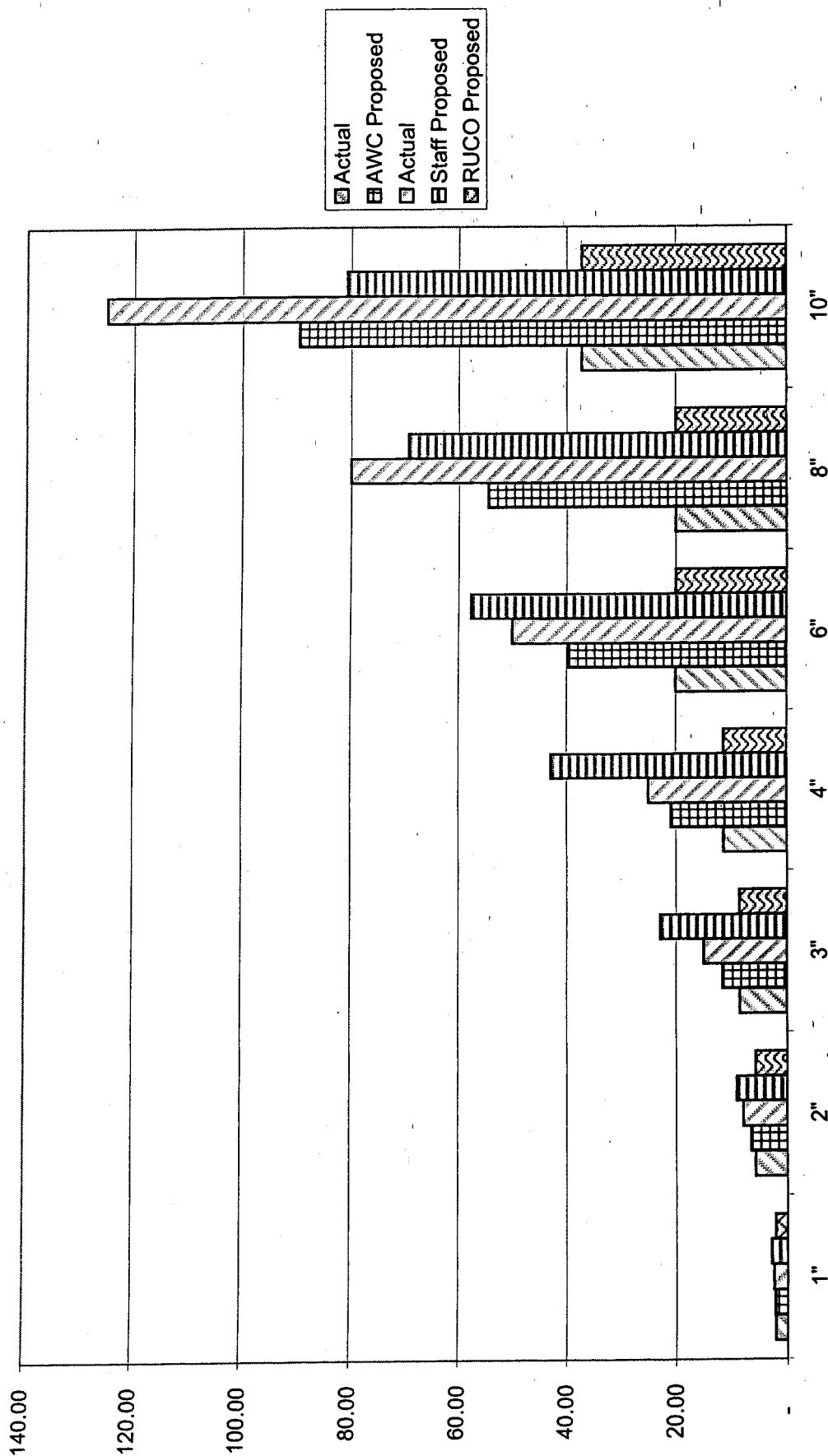
Capacity Multiples By Meter Size
Oracle



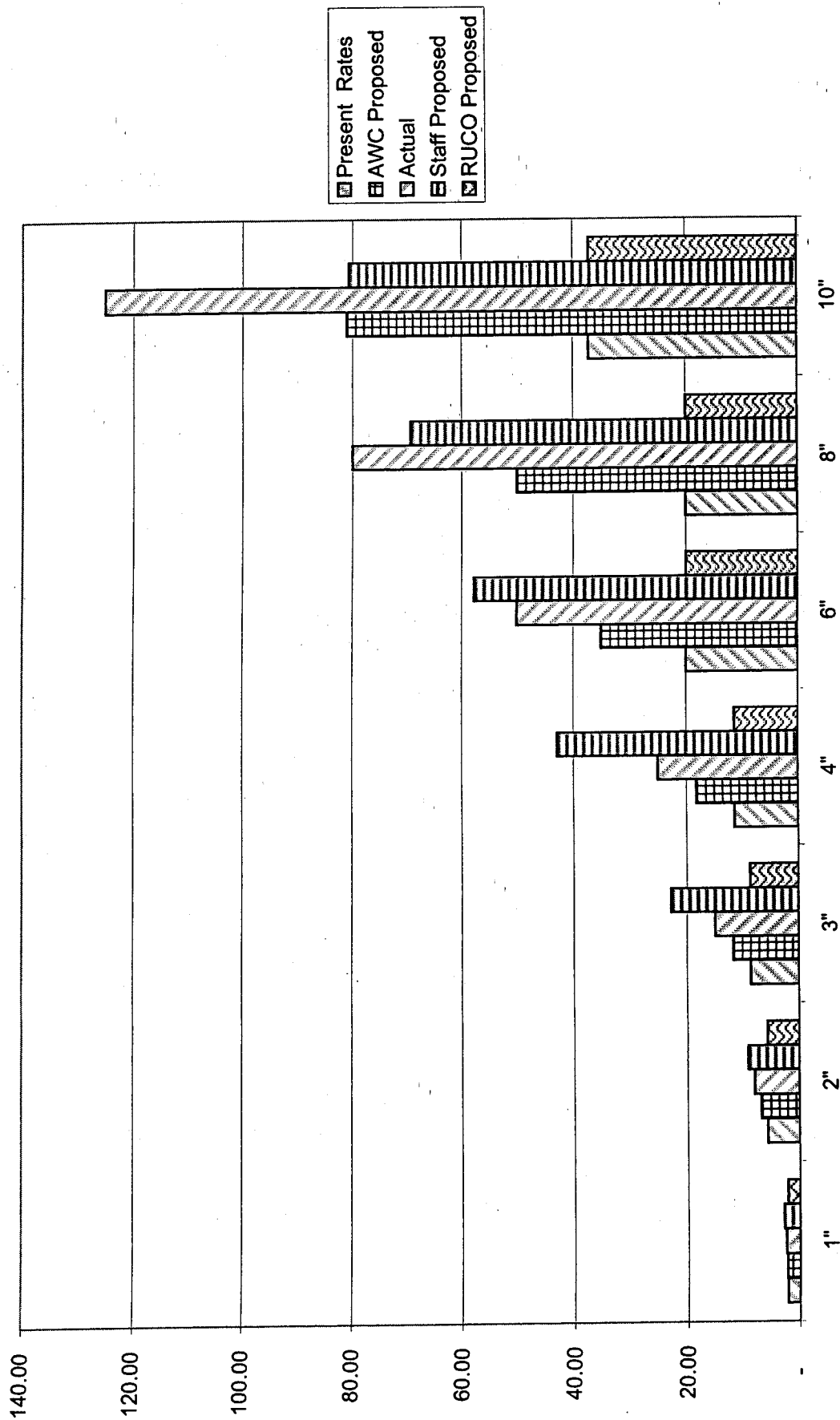
Capacity Multiples By Meter Size
Winkelman



Capacity Multiples By Meter Size
Superior Combined W/ Apache Junction



Capacity Multiples By Meter Size
Superior Alone



Percent of Use In Tier 3
By Meter Size - Apache Junction

